

## **Task 2.3**

### **Quarterly Status Report #3**

*For the Project entitled*

**Lamb Island Dairy Remediation**

**SFWMD Contract No. C-13410**

*Submitted by*

**HSA Engineers & Scientists**

HSA Project No. 8005-7106-00  
October 2005

## Introduction

This is the third of the six required quarterly status reports for the Lamb Island Dairy Remediation project. The Contract requires quarterly status reports beginning concurrently with the construction of the remedial alternatives. A Contract Amendment (Amendment No. 1 to Contract No. C-13410) was entered into on March 21, 2004, which set in-place the design conditions included in the Final Detailed Design and Specifications Package. The construction of the remedial alternative is complete and water quality monitoring activities have begun. This report covers the period of October 1, 2004 to December 31, 2004. The primary activities completed during this reporting period have been the submittal of the Project Performance Monitoring Plan, and the required quarterly water quality sampling trip.

## Site Condition

The Lamb Island Dairy site is in good general condition. The areas seeded with bahia grass have grown in well with a few areas of spotty growth. In all other areas the vegetation has grown extremely fast. All major constructed features remain in good condition. No major rain events have taken place during this seasonally dry quarter with only occasional frontal systems dropping a negligible amount of rain. All stormwater runoff appears to be retained on-site and no runoff has been observed leaving the site.

## Quarterly Sampling Event

On November 18, 2004 the first of the six quarterly scheduled sampling events was completed. **Figure 1** shows the location of the six surface water sampling location and the one ground water monitoring location just south of Pond 3. **Table 1** shows water quality results for all sampling locations and GPS coordinates for each location. **Appendix A** contains laboratory results and sample chain of custody. **Appendix B** contains field sampling notes. All sampling was conducted in accordance with FDEP Quality Assurance Rule, Chapter 62-160.210 F.A.C., the associated FDEP SOPs, and HSA's Quality Assurance Manual.

Table 1. Quarterly Sampling Results for 11/18/04

	SW-1	SW-2	SW-3	SW-4	SW-6	GW-1
TP	2.1	1.6	2.5	4.4	0.82	0.085
Ortho-P (OPO)	2	1.4	2.4	4.2	0.62	--
Total Aluminum						3.1

Note: All values shown in mg/L

Sampling location SW-1 was collected for Total Phosphorus (TP) and Ortho-Phosphorus (OPO) analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were reported at 2.1 parts per million (ppm) and

2.0 ppm, respectively. An equipment blank sample was also collected and results for TP and OPO analysis were reported Below Detection Limit (BDL) for both analysis.

Sampling location SW-2 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 1.6 ppm and 1.4 ppm, respectively.

Sampling location SW-3 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and a sample was obtained in the ponded water just in front of the upstream side of the culvert. Results for TP and OPO were 2.5 ppm and 2.4 ppm, respectively.

Sampling location SW-4 was collected for TP and OPO analysis. At the time of sampling there was no flow through this sampling location and no ponded water. A sample was collected from the north side of the wetland to the south of SW-4 which is directly fed by water from this sampling location. Results for TP and OPO were 4.4 ppm and 4.2 ppm, respectively.

Sampling location SW-5 was completely dry and therefore no sample was taken at all.

Sampling location SW-6 is located in Pond 3 and was collected and analyzed for TP and OPO analysis. The sample was collected on the north side of the pond approximately midway between the east and west end of the pond. Results for TP and OPO were 0.82 ppm and 0.62 ppm, respectively. Previous sampling in Pond 3 after alum treatment yielded results less than the latest phosphorus value. The elevated results are likely the result of storm water runoff into the pond from HIA area.

Sampling location GW-1 is a shallow groundwater well located near the south side of Pond 3. This well was installed and sampled prior to alum treatment in Pond 3 to assess the impact of Alum treatment of Pond 3 water to the regional groundwater as well as groundwater TP concentration. The well has total depth of 8.8 feet from the top of casing and at the time of sampling the depth to water was 4.5 feet. Background values of Total Aluminum prior to alum treatment of Pond 3 for sampling on June 15, 2004 and June 22, 2004 were 1.13 ppm and 3.32 ppm respectively and for TP the value were 0.33 ppm and 0.25ppm. Results for Total Aluminum analysis of the ground water during the quarterly sampling event was 3.1 ppm and TP results were 0.085 ppm.

## Fourth Quarter Activities

Task to be completed next quarter are:

- Scheduled Quarterly Sampling Trip
- Rainfall driven sampling events
- Staff Gage Installation

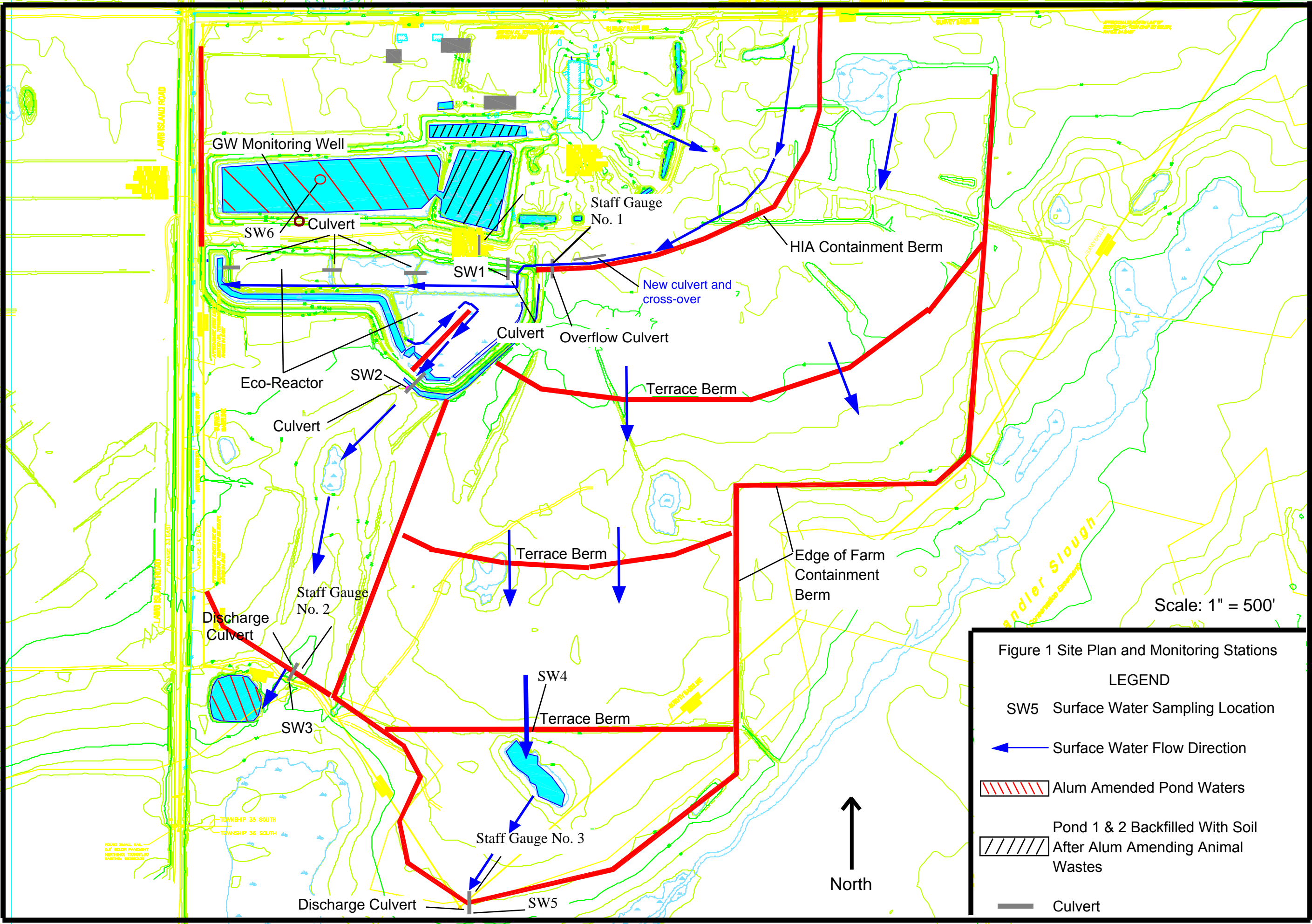


Figure 1 Site Plan and Monitoring Stations

LEGEND

- SW5 Surface Water Sampling Location
- Surface Water Flow Direction
- Alum Amended Pond Waters
- Pond 1 & 2 Backfilled With Soil
- After Alum Amending Animal Wastes
- Culvert

## Invoicing Status Sheet

SFWMD Contract No. C-13410		Q-3 Report		December 31, 2004	
TASKS / DELIVERABLES DESCRIPTION		Task Budget	Invoiced this Period	Invoiced to Date	Retainage Not Invoiced
<b>TASK 1 - Detailed Design for Selected Alternatives</b>					
1.1 Project kick-off meeting		\$1,500	\$0	\$1,500	
1.2 Draft Preliminary 30% Design Package		\$21,223	\$0	\$21,223	
1.3 Final Preliminary 30% Design Package		\$3,975	\$0	\$3,975	
1.4 Detailed 90% Design Package		\$7,603	\$0	\$7,603	
1.5 Final Detailed Design and Specifications Package		\$4,227	\$0	\$4,227	
1.6 Construction Completion		\$282,493	\$58,763	\$245,998	
<b>TASK 2 - Project Implementation and Performance Monitoring</b>					
2.1 Draft Performance Monitoring Plan		\$4,507	\$0	\$4,507	
2.2a Final Performance Monitoring Plan		\$2,100	\$0	\$0	
2.2b One (1) Year of Monitoring (15 events)		\$10,033	\$0	\$0	
2.3 Quarterly Reports		\$17,770	\$0	\$0	
2.4 Quarterly Site Meetings		\$4,060	\$0	\$0	
<b>TASK 3 - Project Performance Evaluation</b>					
3.1 Draft O&M Plan		\$3,985	\$0	\$0	
3.2 Final O&M Plan		\$1,933	\$0	\$0	
3.3 Draft Final Report		\$11,715	\$0	\$0	
3.4 Final Project Report		\$4,856	\$0	\$0	
<b>Totals</b>		<b>\$381,980</b>	<b>\$58,763</b>	<b>\$289,033</b>	

**MWBE Participation:**

Amount to date = \$ 41,611.40  
 MWBE Goal = 7.0%  
 Target Project Goal = \$ 26,738.60

## **APPENDIX A**

Client #: FTL-95-060107  
Address: HSA Engineers & Scientists  
1486-A Skees Road  
West Palm Beach, FL 33411  
Attn: Terry Horan

Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-3

**Sample Description:**


Lamb Island Dairy Remediation  
Proj.#: 80057106

Analytical Report: SW-3  
Date Sampled: 11/18/04  
Time Sampled: 00:00  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	2.4	mg/l	365.1	0.050	11/19 18:10	11/19 18:10	MS
Total Phosphorus as P	2.5	mg/l	365.1	0.050	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(##)-see attached USB code  
FLDEP Flags: J(##)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240	KS/NELAC# E-10360
NC CERT# 444	ADEM ID# 40850
SC CERT# 96031001	TN CERT# 02985
IL/NELAC CERT# 200020	GA CERT# 917
VA CERT# 00395	USDA Soil Permit# S-35240

Respectfully submitted,  
  
LouAnn Jones  
Project Manager

Client #: FTL-95-060107  
 Address: HSA Engineers & Scientists  
 1486-A Skees Road  
 West Palm Beach, FL 33411  
 Attn: Terry Horan

Page: Page 1 of 1  
 Date: 11/30/2004  
 Log #: L101534-2

**Sample Description:**


Lamb Island Dairy Remediation  
 Proj.#: 80057106

Analytical Report: SW-2  
 Date Sampled: 11/18/04  
 Time Sampled: 00:00  
 Date Received: 11/19/04  
 Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	1.4	mg/l	365.2	0.010	11/19 15:38	11/19 15:38	MS
Total Phosphorus as P	1.6	mg/l	365.1	0.010	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
 Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
 Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NPL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
 FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
 FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
 FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240      KS/NELAC# E-10360  
 NC CERT# 444      ADEM ID# 40850  
 SC CERT# 96031001      TN CERT# 02985  
 IL/NELAC CERT# 200020      GA CERT# 917  
 VA CERT# 00395      USDA Soil Permit# S-35240

Respectfully submitted,  
  
 LouAnn Jones  
 Project Manager





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Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-1

**Sample Description:**

Lamb Island Dairy Remediation  
Proj.#: 80057106

**Analytical Report: SW-1**


Date Sampled: 11/18/04  
Time Sampled: 09:32  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	2.0	mg/l	365.2	0.010	11/19 15:38	11/19 15:38	MS
Total Phosphorus as P	2.1 C8	mg/l	365.1	0.050	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NPL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240 KS/NELAC# E-10360  
NC CERT# 444 ADEM ID# 40850  
SC CERT# 96031001 TN CERT# 02985  
IL/NELAC CERT# 200020 GA CERT# 917  
VA CERT# 00395 USDA Soil Permit# S-35240

Respectfully submitted,

  
LouAnn Jones  
Project Manager

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Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-4

**Sample Description:**

Lamb Island Dairy Remediation  
Proj.#: 80057106


Analytical Report: SW-4  
Date Sampled: 11/18/04  
Time Sampled: 00:00  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	4.2	mg/l	365.1	0.050	11/19 18:10	11/19 18:10	MS
Total Phosphorus as P	4.4	mg/l	365.1	0.050	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240	KS/NELAC# E-10360
NC CERT# 444	ADEM ID# 40850
SC CERT# 96031001	TN CERT# 02985
IL/NELAC CERT# 200020	GA CERT# 917
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Respectfully submitted,

  
LouAnn Jones  
Project Manager

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Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-5

**Sample Description:**

Lamb Island Dairy Remediation  
Proj.#: 80057106


Analytical Report: SW-6  
Date Sampled: 11/18/04  
Time Sampled: 11:34  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	0.62	mg/l	365.1	0.010	11/19 15:30	11/19 15:30	MS
Total Phosphorus as P	0.82	mg/l	365.1	0.010	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240      KS/NELAC# E-10360  
NC CERT# 444      ADEM ID# 40850  
SC CERT# 96031001      TN CERT# 02985  
IL/NELAC CERT# 200020      GA CERT# 917  
VA CERT# 00395      USDA Soil Permit# S-35240

Respectfully submitted,

  
LouAnn Jones  
Project Manager

Company Name: HSA Engineers PO#

Address: 1490-A Skies Rd. City: West Palm Beach, FL Zip: 33411

Alt: Terry Heran Fax: 561-688-9005 email: THERAN@HSA-ENV.COM

Project: Lamb Island Dairy Remediation Proj # 98057106

Sampler Signature: Phone#

Sample Label (Client ID) Collect Date Collect Time Matrix Code\* Field Filtered Integrity OK (Y/N) Total # of Containers

1.e. MMW-1 6/16/2004 11:35 GW X 1

Parameters: TP, Ortho-P, Total AL

LAB ANALYSIS REPORT HOLD

Matrix Codes: SD, GW, EFF, APFW, WW, DW, SW, ML, OL, SL, AQ, NA, PE, O

Pres/Codes: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

REMARKS: 17

Lab Use Only: 198

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Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-7

**Sample Description:**

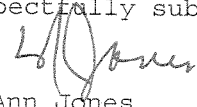
Lamb Island Dairy Remediation  
Proj.#: 80057106

Analytical Report: Equipment Blank  
Date Sampled: 11/18/04  
Time Sampled: 09:32  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>General Chemistry</b>							
Orthophosphate as P	BDL	mg/l	365.1	0.010	11/19 15:38	11/19 15:38	MS
Total Phosphorus as P	BDL	mg/l	365.1	0.010	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
FLDEP Flags: Y-improper preservation; B-colonies exceed range; I-result between MDL and PQL

FLDOH/NELAC# E86240	KS/NELAC# E-10360
NC CERT# 444	ADEM ID# 40850
SC CERT# 96031001	TN CERT# 02985
IL/NELAC CERT# 200020	GA CERT# 917
VA CERT# 00395	USDA Soil Permit# S-35240

Respectfully submitted,  
  
LouAnn Jones  
Project Manager

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Attn: Terry Horan

Page: Page 1 of 1  
Date: 11/30/2004  
Log #: L101534-6

**Sample Description:**

Lamb Island Dairy Remediation  
Proj.#: 80057106

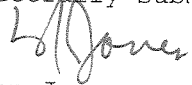
Analytical Report: GW-1  
Date Sampled: 11/18/04  
Time Sampled: 11:15  
Date Received: 11/19/04  
Collected By: Client

Parameter	Results	Units	Method	Report Limit	Extr. Date	Analysis Date	Analyst
<b>Metals</b>							
Aluminum	3.1	mg/l	3010/6010	0.050	11/23 11:25	11/29 21:41	EB
<b>General Chemistry</b>							
Total Phosphorus as P	0.085	mg/l	365.1	0.010	11/22 17:00	11/23 10:11	EF

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements.  
Flags: BDL or U-below reporting limit; DL-diluted out; IL-meets internal lab limits; MI-matrix interference; NA-not appl.  
Flags: CFR-Pb/Cu rule; ND-non detect (RL estimated); NFL-no free liquids; dw-dry wt; ww-wet wt; C(#)-see attached USB code  
FLDEP Flags: J(#)-estimated 1:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol  
FLDEP Flags: L-exceeds calibration; Q-holding time exceeded; T-value < MDL; V-present in blank  
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FLDOH/NELAC# E86240	KS/NELAC# E-10360
NC CERT# 444	ADEM ID# 40850
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Respectfully submitted,

  
LouAnn Jones  
Project Manager

## **APPENDIX B**

SUNNY

RON + DAVE

11-18-04 SW-5

NO WATER ON ARRIVAL

INSTALLED ID STAKES + MARKERS

TOOK PHOTOS

GPS COORDINATES -  $27^{\circ}22'52.8''$  N  
 $080^{\circ}58'20.9''$  W

NO SAMPLE TAKEN

SW-4 DRY (NO WATER)

GPS COORDINATES N  $27^{\circ}22'59.5''$   
W  $080^{\circ}58'19.2''$

TEMP - 68.52 DO - 4.48 ORP - 62.3

COND - 189 PH - 7.26

COLLECTED SAMPLE FROM WETLAND SOUTH OF IT

NO FLOW

INSTALLED STAKES + MARKERS FOR ID

SAMPLED FOR TP + OPO



SUNNY

RON + DAVE

11-18-04

SW-6

GPS COORDINATES  $27^{\circ} 23' 22.4''$  N

$80^{\circ} 58' 28.1''$  W

TEMP 70.93

DO - 8.10

ORP - 43.1

COND 878

PH - 7.11

SAMPLE COLLECTED @ 1134 FOR TP, + OPO

INSTALLED ID STAKES + MARKERS

SW-3

NOTICED THREE COWS GRAZING??

GPS COORDINATES

$27^{\circ} 23' 01.6''$  N

$80^{\circ} 58' 29.0''$  W

TEMP - 69.97 DO - 2.21 ORP - 23.7

COND - ~~242~~  $242 \mu\text{S}/\text{cm}$  PH - 7.43

WATER LOOKS LIKE ICE TEA <sup>←</sup> (NOTE)

NO FLOW

INSTALLED STAKES + MARKERS

TOOK PHOTOS

COLLECTED SAMPLE FOR TP, + OPO

11-18-04

RON + DAVE

CONTINUE PURGE @ GW-1

@ 10:42 Temp - 75.73 PH - 6.14  
Cond - 143 ~~US~~ ORP - 20.0  
DO - 0.22

@ 10:45

Temp - 75.70 PH - 5.73  
Cond - 146 US ORP - 28.1  
DO - 0.33

@ 10:48

Temp - 75.77 PH - 5.73  
Cond - 143 US ORP - 32.1  
DO - 0.26

@ 10:51

Temp - 75.76 PH - 5.73  
Cond - 147 ORP - 32.1  
DO - 0.23

11:15 - 8 NTU

Collected Sample for TP, + Alum.

Total depth = 8.78

Installed STAKES + MARKERS + Photos

Partly Cloudy 78°

RON + DAVE

11-18-04

## Lamb Island Monitoring Plan

Collected sample from SW-1 @ 0932

Standing water (No flow).

sampled for TP, + OPO

installed ~~STAKES~~<sup>RD.</sup> to MARK sample location.

\* Took equipment blank

GPS Coordinates : (27° 23' 18.3" N)

Temp - 68.10

DO - 2.54

ORP - -17.7

Cond - 365 US

PH - 6.53

Took Photos

Collected sample from GW-1 @

sampled for TP + Aluminum

GPS Coordinates :

27° 23' 19.8"

80° 58' 29.9"

well diameter 1 1/4"

DTW : 4.50 feet

Well Depth :

STARTED PURGE @ 10:25

@ 10:39

75.76 - Temp

PH - 6.41

146 - UAS(Cond)

ORP - 16.5

DO - 0.35 mg/L

RON + DAVE

11-18-04 SW-2

GPS COORDINATES N 27°23'13.9"

W 080°58'23.6"

Temp - 71.24

DO - 43.0

ORP - 48.0

Cond - 552

PH - 6.99

Collected Sample for TP, + OPO (NO Flow)

Installed ID MARKERS + STAKES

Took Photos